Problem Solving: Draw a Picture and Write an Equation

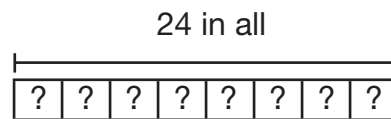Read the question and follow the steps to solve.

Bryan has 24 bottles of water. He and his friends have 8 backpacks. If he puts the same number of bottles into each backpack, how many bottles will be in each?

Step 1: Read/Understand	**Step 2:** Plan and Solve	**Step 3:** Check
• Find the information the problem gives you. [There are 24 bottles of water and 8 backpacks.] • Find the information the problem wants you to figure out. [The number of bottles in each backpack]	• Draw a picture to help you visualize the problem. 24 in all ┌─┬─┬─┬─┬─┬─┬─┬─┐ │?│?│?│?│?│?│?│?│ └─┴─┴─┴─┴─┴─┴─┴─┘ • Figure out which operation you need to use. [Division] • Write an equation. [$24 \div 8 = ?$] Solve. [$? = 3$ bottles]	$24 \div 8 = 3$ Check: $3 \times 8 = 24$ The answer checks.

1. **Strategy Practice** Joeli has 10 quarters. She wants to buy postcards to mail to her friends. Each postcard costs 2 quarters. How many postcards can she buy?

   • What does the question tell you?

   _____

   • What does the question ask you to find?

   _____

   • Write an equation. Solve and check.

   _____

   _____

Solve the following problems. Draw a picture to help.

2. Mack has 36 photos. His album can hold 9 photos per page. How many pages will he need to use? _____

3. There are 7 vans taking 56 students on a field trip. If each van has the same number of students, how many students are on each van? _____